

# Woodward-Clyde Consultants

Engineering & sciences applied to the earth & its environment

REC'D  
12-28-93  
F.B.

December 20, 1993  
87X4660

Mr. Frank Battaglia, Project Manager  
USEPA Region I  
Waste Management Building  
90 Canal Street  
Boston, MA 02114

**Re: Proposed Background Sediment Sampling Locations for Round 1 of the  
Phase II Release Characterization of the Pawtuxet River**

Dear Mr. Battaglia:

As outlined in the "Phase II Pawtuxet River Proposal" (January 1992) and subsequent revisions, CIBA-GEIGY plans to sample sediment (for Appendix IX Compounds) from the Upstream Reach of the Pawtuxet River during the Phase II Release Characterization to characterize background sediment quality. CIBA's consultant providing expertise in the Environmental Assessment of the river, IT Corporation, has requested that we conduct the Round 1 sediment sampling of the Upstream Reach as soon as possible to provide sediment quality information that is critical to their investigation. We plan to collect the eight Round 1 sediment samples from the Upstream Reach during the first or second week of January 1994.

We have included a map with this submittal identifying the locations we have selected for the Round 1 Upstream Reach samples. These samples were selected based on the following criteria:

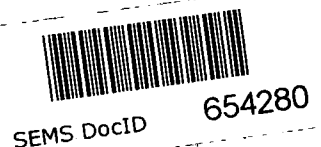
- 1). **Sediment Thickness:** areas were selected where sediment thicknesses were in excess of 1 foot, where possible, based on the hydrological information previously collected from the river. These areas represent depositional zones where sediments accumulate.
- 2). **Sediment Total Organic Carbon and Percent Fines Content:** areas were selected where higher TOC and percent fines concentrations were found, as these areas are most likely to display contamination, if present.
- 3). **Proximity to Discharges to the River:** for four locations, areas were selected immediately downstream of significant discharges to the river (i.e., POTW, tributaries). This subset of samples should enable assessment of other input sources of contamination to the river.

IDENTIFY THESE LOCATIONS  
IN REPORT

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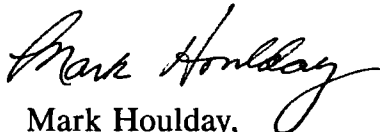
201 Willowbrook Boulevard • P.O. Box 290 • Wayne, New Jersey 07470  
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The Phase II Proposal proposed collection of eight samples during Round 1 in the Upstream Reach, two samples along each of four transects. Based on our expanding knowledge of river geometry and after reviewing the sediment characterization maps of the portion of the river above the facility, we propose to modify the sampling scheme to collect eight samples from independent locations within the river (i.e., not along crosssectional transects). The river narrows significantly above the facility and the sediment characterization maps indicate great variation in sediment thickness and physical characteristics across the river at any given point. Selection of eight independent sampling locations rather than four transect locations will provide greater spatial coverage of sediment quality for the Upstream Reach.

The enclosed map identifies the eight proposed sampling locations along with two alternate locations. Please contact us if you would like to discuss the rationale for the selection of these locations.

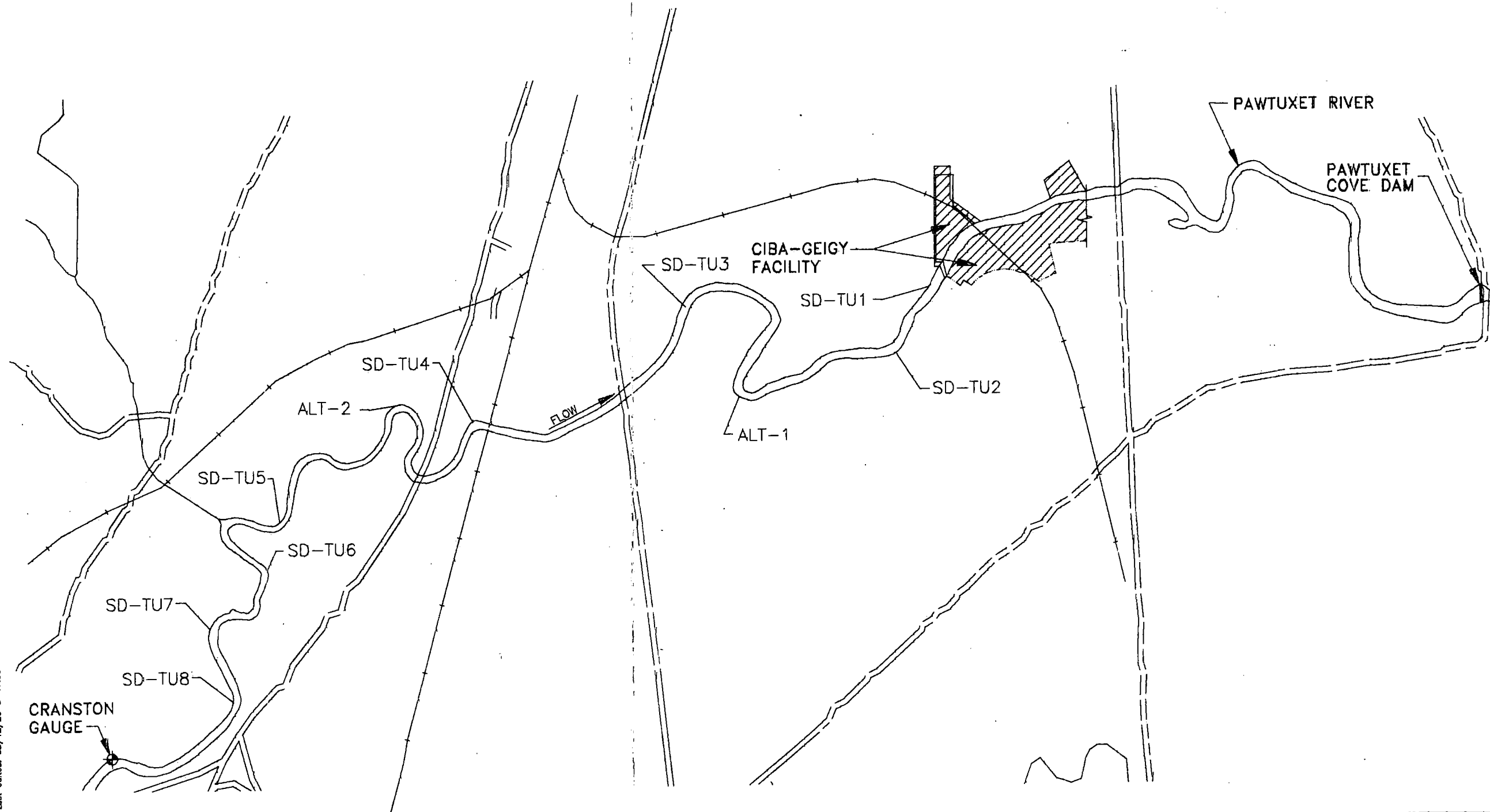
Sincerely,



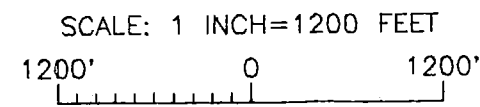
Mark Houlday,  
Project Manager

cc: Diane Leber  
Diana Baldi





**LEGEND:**  
SD-TU1 DENOTES UPSTREAM SEDIMENT SAMPLE LOCATION  
ALT-1 DENOTE ALTERNATE SEDIMENT SAMPLE LOCATION.



PHASE II ROUND 1 RELEASE CHARACTERIZATION UPSTREAM REACH SEDIMENT LOCATIONS			
WOODWARD-CLYDE CONSULTANTS			
CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS WAYNE, NEW JERSEY			
DR. BY	GT	SCALE	1" = 1200'
CK'D. BY	JR	DATE	SEPT 29, 1993
PRQJ.		FIG. NO.	
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